

Claims

[1]

An organic EL display device comprising: a dot-matrix type organic EL panel having a plurality of scanning lines and a plurality of drive lines; scanning switch means for connecting said scanning lines freely to a first potential or a second potential; drive switch means for connecting said drive lines freely to a drive current source or an off potential; and control means for causing said scanning switch means to connect said scanning lines to said first potential thereby to select said scanning lines sequentially and to control the connected state of said drive switch means, characterized:

in that said control means changes, according to the number of said drive lines to be connected to said drive current source, the resistance of said scanning switch means corresponding to said scanning lines connected to said second potential to become an unselected state, into at least two stages.

[2]

An organic EL display device as set forth in claim 1, characterized in that said scanning switch means includes a first transistor for connecting said scanning lines to said first potential, and a second transistor for connecting said scanning lines to said second potential.

[3]

An organic EL display device as set forth in claim 2, characterized in that said control means changes, according to the number of said drive lines to be connected to said drive current source, the bias voltage of said second transistor corresponding to said scanning lines connected to said second potential to become the unselected state, thereby to change said resistance.

[4]

An organic EL display device as set forth in claim 1, characterized by comprising temperature detecting means for detecting the temperature of said organic EL panel thereby to output temperature data.

[5]

An organic EL display device as set forth in claim 4, characterized in that said control means changes, according to the number of said drive lines to be connected to said drive current source and said temperature data, said resistance of said scanning switch means connected to said second potential.

[6]

An organic EL display device comprising: a dot-matrix type organic EL panel having a plurality of scanning lines and a plurality of drive lines; scanning switch means for connecting said scanning lines freely to a first potential or a second potential; drive switch means for connecting said

drive lines freely to a drive current source or an off potential; and control means for causing said scanning switch means to connect said scanning lines to said first potential thereby to select said scanning lines sequentially and to control the connected state of said drive switch means, characterized:

in that said scanning switch means includes a first transistor for connecting said scanning lines to said first potential, and a second transistor for connecting said scanning lines to said second potential; and

in that said control means changes, according to the number of said drive lines to be connected to said drive current source, the bias voltage of said second transistor corresponding to said scanning lines connected to said second potential to become an unselected state.

[7]

A drive method for an organic EL display device, comprising: connecting a plurality of scanning lines individually to one of a first potential and a second potential; and connecting a plurality of drive lines individually to a drive current source or an off potential, characterized:

in that according to the number of said drive lines to be connected to said drive current source, the resistance of said scanning switch means connected to said second potential is changed into at least two stages.

[8]

An organic EL display device driving method as set forth in claim 7, characterized:

in that said scanning switch means includes a first transistor for connecting said scanning lines to said first potential, and a second transistor for connecting said scanning lines to said second potential; and

in that said control means changes, according to the number of said drive lines to be connected to said drive current source, the bias voltage of said second transistor corresponding to said scanning lines connected to said second potential to become the unselected state, thereby to change said resistance.

[9]

An organic EL display device driving method as set forth in claim 7, characterized in that according to the number of said drive lines to be connected to said drive current source and the temperature of said organic EL panel, the resistance of said scanning switch means connected to said second potential.

[10]

A drive method for an organic EL display device, comprising: connecting a plurality of scanning lines individually to one of a first potential and a second potential; and connecting a plurality of drive lines individually to a

drive current source or an off potential, characterized:

in that said scanning switch means includes a first transistor for connecting said scanning lines to said first potential, and a second transistor for connecting said scanning lines to said second potential; and

in that said control means changes, according to the number of said drive lines to be connected to said drive current source, the bias voltage of said second transistor corresponding to said scanning lines connected to said second potential to become the unselected state.